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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,907	06/27/2003	David Carroll Snader	018360/262695	8093
826 7590 09/24/2008 ALSTON & BIRD LLP BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000 CHARLOTTE, NC 28280-4000			EXAMINER ZHEN, L I B	
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/607,907

**Applicant(s)**

SNADER ET AL.

**Examiner**

LI B. ZHEN

**Art Unit**

2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 24 June 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) See Continuation Sheet is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 4, 9-19, 23, 26, 28, 50, 53, 56-65, 68, 69, 75-78, 80, 82-84, 87 and 92-101 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

Continuation of Disposition of Claims: Claims pending in the application are 1,4,9-19,23,26,28,50,53,56-65,68,69,75-78,80,82-84,87 and 92-101.

### **DETAILED ACTION**

1. 1,4,9-19,23,26,28,50,53,56-65,68,69,75-78,80,82-84,87 and 92-101 are pending in the application.

### ***Response to Arguments***

2. Applicant's arguments filed 6/24/2008 have been fully considered but they are not persuasive. In response to the Non-Final Office Action dated 05/28/2008, applicant argues:

(1) Additionally, there certainly is no mention, teaching or suggestion relating to mapping data from one or more fields of a selected contact card such contact card 138 to one or more corresponding fields of a web page application to automatically populate the web page by using the mapping data, as required by claim 1. Rather, as can be seen in FIG. 8 of Hertzog and as noted above, selection of a contact card such as contact card 138, for example, at best shows all the relevant contact's personal information and a photograph associated with the contact [p. 14];

(2) Nowhere in Hertzog is there any teaching or suggestion relating to transmitting any web page containing mapped contact data to a web server executing a web application via a communication network, as claimed [pp. 14 – 15]; and

(3) Converting the format of stored contact records to a different format for a new personal information manager (PIM) is not tantamount to mapping data from one or more fields of the selected contact records to one or more corresponding fields of a web

page of a web application to automatically populate the web page by using the mapping data, as required by claim 1 [p. 15].

As to argument (1), examiner respectfully disagrees and notes that Hertzog displays the contact card information in a browser panel [i.e. paragraph 0110]. The browser panel is part of a web page and the contact cards displayed in the browser panel includes user information fields [i.e. paragraph 0114]. The browser panel displays a virtual card for each contact of a selected category or as located by a specific search query entered [paragraph 0113]. Therefore, Hertzog teaches mapping data from one or more fields of a selected contact card [paragraph 0113] to one or more corresponding fields [user information fields; paragraph 0114] of a web page application [browser panel 136; paragraph 0113].

As to argument (2), examiner disagrees because Hertzog teaches populating a web query with contact information [paragraph 0200] and transmitting the web query to an on-line information source or service [paragraph 0201]. Therefore, Hertzog teaches transmitting a web page containing mapped data [web query populated with contact information] to a web server [on-line information source or service; paragraph 0201].

As to argument (3), the conversion process in Swan includes applying mechanical rules that performs mapping such as the names of the field tags to different names [paragraph 0155]. The mechanical rules maps data from the contact record into

a format that permits unambiguous identification of the different contact information fields [paragraph 0013]. In addition, Swan teaches populating a web page interface [paragraph 0079] with contact information based on the converted data [convert all of the contact records associated in database 70 with a particular end user 21 from the standard format to the particular format; paragraph 0217 and paragraph 0061: html format]. Therefore, the combination of Hertzog and Swan teaches applicant's invention as claimed.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 1,4,9-19,23,26,28,50,53,56-65,68,69,75-78,80,82-84,87 and 92-101 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application Publication No. 2003/0069874 to Hertzog et al. [hereinafter Hertzog] in view U.S. Patent Application Publication No. 2004/0093317 to Swan, both references previously cited.**

5. As to claim 1, Hertzog teaches a method performed with a computing device, the method comprising the steps of:

mapping one or more fields of contact data [synchronization traders 52, 54 and 56 is responsible for performing a mapping operation between fields of the local database 30, and a database maintained, by the PIM 22; p. 5, paragraph 0059] from personal information manager (PIM) software [PIM 22; p. 5, paragraph 0059] to one or more corresponding fields [category\_ fields table 94 maps information fields, defined in a fields table 100, to specific categories, in a many-to-many mapping, so that a single category may include multiple fields, and a single field may be included within multiple categories; p. 7, paragraph 0087] of the web page of a web application to produce a mapping [presented within the contact details panel 152 and retrieved based on personal information within the local database 30; p. 11, paragraph 0118; p. 7, paragraphs 0084 and 0087];

entering one or more alphanumeric characters into a field of a web page of the application [a "power find" panel 134 via which a user may conduct a search of contact information contained within the local database 30; p. 10, paragraphs 0110 and 0111];

displaying more than one sets of contact data that match the entered alphanumeric characters [after entering the leading letter "c", all contacts having a last name beginning with "c" will be displayed within the browser panel 136; p. 10, paragraphs 0110 and 0111];

selecting one of the displayed sets of contact data to be mapped to the fields of the web page [user may conveniently view contact information for each respective category by performing a selection operation; p., 10, paragraph 0113]; and

transmitting the web page containing mapped data as output data to a web server executing the web application via a communication network [GUI 24 communicates an inputted search string to a thread-based fetch mechanism implemented in the client services module 26 that then returns search results to the GUI 24; p. 10, paragraphs 0111 and paragraphs 0199 – 0201].

However, Swan teaches mapping one or more fields of contact data from personal information manager (PIM) software [p. 14, paragraph 0155], searching the contact data using interface software for more than one set of contact data matching the entered alphanumeric characters [wildcards that can represent one or any number of characters; p. 9, paragraph 0106] using the mapping data [if button 256 is selected, then all records containing the strings or string fragments (depending upon the embodiment and/or upon user settings) entered by end user 21 in the corresponding fields are to be retrieved; p. 9, paragraph 0105], displaying more than one set of contact data [displaying the contact information... M is the total number of matching records returned for the nth contact identifier; pp. 11 – 12, paragraph 0133] that match the entered alphanumeric characters [multiple possible records (where the identifying information was non-unique) for the contact identifier; p. 11, paragraph 0123], selecting one of the displayed sets of contact data to be mapped to the fields of the web page [p. 8, paragraph 0096], mapping data from one or more fields of the selected set of contact data to the one or more corresponding fields of the web page of the web application to automatically populate the web page by using the mapping data [pp. 18 – 19, paragraph 0217], and transmitting the web page containing the mapped data as output data to a

web server executing the web application via a communication network [p. 4, paragraph 0050].

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Hertzog to incorporate the features of Swan because this provides a method for controlling, distributing and receiving contact information [p. 2, paragraph 0014 of Swan] and provides a central hub which maintains contact records for a number of different contacts and facilitate sharing of contact information [p. 2, paragraph 0015 of Swan].

6. As to claim 19, Hertzog as modified teaches receiving mapping software [p. 5, paragraph 0059 of Hertzog] at a computing device from a public communications network [network 14; p. 11, paragraph 0118 of Hertzog], the mapping software for generating mapping data that maps at least one field of contact data [p. 5, paragraph 0059 of Hertzog] from a personal information manager (PIM) software [p. 5, paragraph 0059 of Hertzog] to at least one corresponding field of a web application [p. 11, paragraph 0118; p. 7, paragraphs 0084 and 0087 of Hertzog]; and

receiving interface software [p. 5, paragraph 0063 of Swan] for automatically populating the web page of the web application with contact data based on the mapping data generated by the mapping software [pp. 18 – 19, paragraph 0217 of Swan], the interface software enabling a user of the computing device to enter one or more alphanumeric characters [p. 7, paragraph 0081 of Swan], and the interface software generating a display of more than one set of contact data [p. 10, paragraphs 0110 and

0111 of Hertzog; pp. 11 – 12, paragraph 0133 and p. 11, paragraph 0123 of Swan] matching the one or more alphanumeric characters entered by the user [p. 7, paragraph 0081 and p. 9, paragraph 0105 of Swan], the user selecting from among the displayed sets of contact data to populate the web page of the web application [p. 10, paragraph 0113 of Hertzog and p. 8, paragraph 0096 of Swan].

7. As to claim 26, Hertzog as modified teaches a method comprising: receiving interface software [p. 5, paragraph 0059 of Hertzog] at a computing device from a public communications network [network 14; p. 11, paragraph 0118 of Hertzog], the interface software for automatically populating a web page of a web application with data from one or more fields of a selected set of contact data [p. 5, paragraph 0059 of Hertzog] based on the mapping data comprising one or more fields of contact data from personal information management (PIM) software mapped to one or more corresponding fields of the web page of the web application [p. 5, paragraph 0059, p. 11, paragraph 0118, p. 7, paragraphs 0084 and 0087 of Hertzog], the interface software enabling a user of the computing device to enter one or more alphanumeric characters [p. 10, paragraphs 0110 and 0111 of Hertzog and p. 7, paragraph 0081 of Swan], and the interface software generating a display of more than one set of contact data [p. 10, paragraphs 0110 and 0111 of Hertzog; pp. 11 – 12, paragraph 0133 and p. 11, paragraph 0123 of Swan] matching the one or more alphanumeric characters entered by the user [p. 7, paragraph 0081 and p. 9, paragraph 0105 of Swan], the user selecting from among the

displayed sets of contact data to populate the web page of the web application [p. 10, paragraph 0113 of Hertzog and p. 8, paragraph 0096 of Swan].

8. As to claim 50, Hertzog as modified teaches transmitting interface software for automatically populating a web application with data from one or more fields of a selected set of contact data [p. 5, paragraph 0059 of Hertzog] from personal information manager (PIM) software [p. 5, paragraph 0059 of Hertzog] based on mapping data comprising one or more fields of contact data from the PIM software mapped to more or more corresponding fields of a web page of the web application [p. 5, paragraph 0059, p. 11, paragraph 0118, p. 7, paragraphs 0084 and 0087 of Hertzog], the interface software [p. 5, paragraph 0063 of Swan] enabling a user of a computing device to enter one or more alphanumeric characters [p. 10, paragraphs 0110 and 0111 of Hertzog and p. 7, paragraph 0081 of Swan], and the interface software generating a display of more than one set [p. 10, paragraphs 0110 and 0111 of Hertzog; pp. 11 – 12, paragraph 0133 and p. 11, paragraph 0123 of Swan] of contact data matching the one or more alphanumeric characters entered by the user [p. 7, paragraph 0081 and p. 9, paragraph 0105 of Swan], the user selecting from among the displayed sets of contact data to populate a web page of the web application [p. 10, paragraph 0113 of Hertzog and p. 8, paragraph 0096 of Swan].

9. As to claim 65, Hertzog as modified teaches an apparatus comprising:

a computing device adapted for [client machine 12; p. 13, paragraph 0139 of Hertzog] executing interface software automatically populate a web page of a web application with data from one or more fields of a selected set of contact data [p. 5, paragraph 0059 of Hertzog] from personal information manager (PIM) software by utilizing mapping data comprising one or more fields of contact data from the PIM software mapped to more or more corresponding fields of a web page of the web application [p. 5, paragraph 0059, p. 11, paragraph 0118, p. 7, paragraphs 0084 and 0087 of Hertzog], a user of the web application using the computing device to enter one or more alphanumeric characters into a field of the web page of the web application [p. 10, paragraphs 0110 and 0111 of Hertzog and p. 7, paragraph 0081 of Swan], the computing device searching the contact data of the PIM software to display more than one set [p. 10, paragraph 0113 of Hertzog; pp. 11 – 12, paragraph 0133 and p. 11, paragraph 0123 of Swan] of contact data matching the one or more alphanumeric characters entered [p. 7, paragraph 0081 and p. 9, paragraph 0105 of Swan] by the user wherein the user selects from among the displayed sets of contact data to populate the one or more fields of the web page [p. 10, paragraph 0113 of Hertzog and p. 8, paragraph 0096 of Swan], the computing device further adapted for transmitting the web page populated with the data from the one or more fields of the selected set of contact data via a public communications network to a server executing the web application [p. 4, paragraph 0050 and paragraphs 0199 – 0201 of Hertzog and p. 4, paragraph 0050 of Swan].

10. As to claim 78, Hertzog as modified teaches a system using a public communications network [network 14; p. 11, paragraph 0118 of Hertzog], the system comprising:

a web server having a web application with at least one web page [web server 42; p. 20, paragraph 0225 of Hertzog], and a set-up file with mapping software and interface software [p. 5, paragraph 0059 of Hertzog]; and

a computing device connected to communicate with the web server via the public communications network [p. 13, paragraph 0139 of Hertzog], and having personal information manager (PIM) software storing contact data [p. 5, paragraph 0059, p. 11, paragraph 0118, p. 7, paragraphs 0084 and 0087 of Hertzog] wherein:

the web server is adapted for transmitting the set-up file to the computing device via the public communications network [p. 5, paragraph 0059 and paragraphs 0199 – 0201 of Hertzog], the computing device receiving the set-up file from the web server and executing the mapping software to map at least one field of contact data [p. 7, paragraph 0087 of Hertzog] from the PIM software [p. 5, paragraph 0059 of Hertzog] to at least one field of a web page of the web application to generate mapping data [p. 11, paragraph 0118; p. 7, paragraphs 0084 and 0087 of Hertzog], and the computing device executing the interface software to enable a user of the computing device to enter one or more alphanumeric characters into a field of the web page of the web application [p. 10, paragraphs 0110 and 0111 of Hertzog and p. 7, paragraph 0081 of Swan], the computing device executing the interface software to search contact data of the PIM software to display more than one set [p. 10, paragraphs 0110 and 0111 of Hertzog and

pp. 11 – 12, paragraph 0133 and p. 11, paragraph 0123 of Swan] one or more sets of contact data matching [p. 7, paragraph 0081 and p. 9, paragraph 0105 of Swan], the one or more alphanumeric characters entered by the user [p. 7, paragraph 0081 of Swan], the computing device further executing the interface software to enable the user to select a displayed set of contact data [p., 10, paragraph 0113 of Hertzog and p. 8, paragraph 0096 of Swan], the computing device mapping the selected set of contact data to at least one field of the web page of the web application based on the mapping data, to automatically populate the field of the web page with corresponding contact data [pp. 18 – 19, paragraph 0217 of Swan], the computing device transmitting the web page with populated data to the web server via the public communications network for processing by the web application executed by the web server [p. 10, paragraph 0111 and paragraphs 0199 – 0201 of Hertzog and p. 4, paragraph 0050 of Swan].

11. As to claim 84, Hertzog as modified teaches a computer-readable medium having a computer program executable by a computing device to enable a user to enter one or more alphanumeric characters into a field of a web page of a web application [p. 10, paragraphs 0110 and 0111 of Hertzog and p. 7, paragraph 0081 of Swan], the computer program executable by the computing device to display more than one set of contact data [p. 10, paragraphs 0110 and 0111 of Hertzog and pp. 11 – 12, paragraph 0133 and p. 11, paragraph 0123 of Swan] matching the one or more alphanumeric characters for the user to select for automatically populating one or more fields of the web page [p. 5, paragraph 0059 of Hertzog of Hertzog and pp. 18 – 19, paragraph 0217

of Swan], the computer program mapping data from one or more fields of the selected contact data from the personal information management (PIM) software to the more or more corresponding fields of the web page [p. 5, paragraph 0059, p. 11, paragraph 0118, p. 7, paragraphs 0084 and 0087 of Hertzog] based on mapping data comprising one or more fields of the web page based on mapping data comprising one or more fields of the contact data from the PIM software mapped to one or more corresponding fields of the web page [p. 5, paragraph 0059, p. 11, paragraph 0118, p. 7, paragraphs 0084 and 0087 of Hertzog and p. 7, paragraph 0081 and p. 9, paragraph 0105 of Swan] to automatically populate the web page with the selected contact data [p. 10, paragraph 0113 of Hertzog and p. 8, paragraph 0096 of Swan], the computer program further executable by the computing device to transmit the web page populated with the selected contact data via a public communications network to a web server executing the web application [p. 4, paragraph 0050 and paragraphs 0199 – 0201 of Hertzog and p. 4, paragraph 0050 of Swan].

12. As to claim 4, Hertzog teaches the mapping data maps the field of contact data to the corresponding field of the web application via a browser extension embedded in the web page of the application [p. 10, paragraph 0111 of Hertzog].

13. As to claim 9, Hertzog as modified teaches outputting the mapped contact data generated by automatically populating the contact data to the application to an output device [p. 9, paragraph 101 of Swan].

14. As to claim 10, Hertzog as modified teaches the output device generates a printed document based on the mapped contact data [p. 9, paragraph 101 of Swan].

15. As to claim 11, Hertzog teaches wherein the communication network is the Internet [p. 11, paragraph 0118 of Hertzog].

16. As to claim 12, Hertzog teaches the contact data comprises a person's name [p. 6, paragraph 0071].

17. As to claim 13, Hertzog teaches the contact data comprises a company name [p. 6, paragraph 0071].

18. As to claim 14, Hertzog teaches the contact data comprises an address [p. 6, paragraph 0071].

19. As to claim 15, Hertzog teaches the contact data comprises a telephone number [p. 8, paragraph 0096].

20. As to claim 16, Hertzog the contact data comprises a mobile number [p. 8, paragraph 0096].

21. As to claim 17, Hertzog teaches the contact data comprises a facsimile number [p. 11, paragraph 0125].

22. As to claim 18, Hertzog teaches the contact data comprises an email address [p. 6, paragraph 0071].

23. As to claim 23, Hertzog teaches the interface software comprises a browser extension embedded in the web page of the web application by a web browser of the computing device [p. 10, paragraph 0111].

24. As to claim 28, Hertzog teaches the interface software comprises a browser extension embedded in the web page of the web application by a web browser of the computing device [p. 10, paragraph 0111].

25. As to claim 53, this claim recites the same features that are presented in corresponding claim 28; see the rejection to claim 28 above, which also meets this claim.

26. As to claim 56, Hertzog teaches the interface software is transmitted by a server over a public communications network to a computing device for execution thereon [p. 4, paragraph 0050 of Hertzog and p. 4, paragraph 0050 of Swan].

27. As to claim 57, Hertzog teaches the public communications network is the Internet [p. 11, paragraph 0118 of Hertzog].

28. As to claims 58 – 64, these claims recites the same features that are presented in corresponding claims 12 – 18, see the rejections to claims 12 – 18 above, which also meet these claims.

29. As to claim 68, Hertzog teaches the mapping data is defined through execution of mapping software by the computing device so that the user can specify the mapping of fields of the contact data to corresponding fields of the web page [pp. 6 – 7, paragraph 0078].

30. As to claims 69 and 76, these are apparatus claims that correspond to method claims 4 and 11; see the rejections to claims 4 and 11 above, which also meet these apparatus claims.

31. As to claim 75, this is an apparatus claim that corresponds to method claim 10; see the rejection to claim above, which also meet this apparatus claim.

32. As to claim 77, this is an apparatus claim that is a combination of method claims 12 – 18, see the rejections to claims 12 – 18 above, which also meet these apparatus claims.

33. As to claim 80, this claim recites the same features that are presented in corresponding claim 9, see the rejection to claim 9 above, which also meet this claim.

34. As to claim 82, Hertzog teaches the public communications network is the Internet [p. 11, paragraph 0118 of Hertzog].

35. As to claim 83, Hertzog teaches the contact data comprises at least one of a person's name, a company name, an address, a telephone number, a mobile number, a facsimile number, and an email address [p. 6, paragraph 0071, p. 8, paragraph 0096 and p. 11, paragraph 0125, see also the rejections for claims 12 – 18 above].

36. As to claims 87 and 94 – 101, these are product claims that correspond to method claims 4 and 11 – 18; see the rejections to claims 4 and 11 – 18 above, which also meet these product claims.

37. As to claims 92 and 93, these are product claims that correspond to method claims 9 and 10; see the rejections to claims 9 and 10 above, which also meet these product claims.

### ***Conclusion***

38. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

#### **CONTACT INFORMATION**

39. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li B. Zhen whose telephone number is (571) 272-3768. The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571)272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Li B. Zhen/  
Primary Examiner, Art Unit 2194

Li B. Zhen  
Primary Examiner  
Art Unit 2194